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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,274	12/02/2003	KUO-CHIANG CHEN	20.2894	1273
23718 7	590 07/06/2006	EXAMINER		
SCHLUMBE	RGER OILFIELD SI	AURORA, REENA		
200 GILLING	HAM LANE	ART UNIT	PAPER NUMBER	
MD 200-9 SUGAR LAND、TX 77478			2862	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary    The MAILING DATE of this communication appears on the cover sheet with the correspondence address —   Period for Reply			<u> </u>
Examiner   Reena Aurora   2862	·	Application No.	Applicant(s)
Reena Aurora  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  E Extensions of time may be sainable under the provision of 3 CPR 1.13(a). In no event, mover, may a reply be timely like address of 3 CPR 1.13(a). In no event, mover, may a reply be timely liked after SX (6) MONTHS from the mailing date of this communication.  I NO period to reply is specified blow, the maximum statistory period will apply and will expire SX (6) MONTHS from the mailing date of this communication.  I NO period to reply in specified blow, the maximum statistory period will apply and will expire SX (6) MONTHS from the mailing date of this communication, even if timely filed, may reduce any carried patent term adjustment. See 37 CFR 1.704(b).  Responsive to communication(s) filed on 13 April 2006.  2a □ This action is FINAL.  2b □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 31-37 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  50 □ Claim(s) 31-37 is/are rejected.  71 □ Claim(s) is/are allowed.  80 □ Claim(s) 31-37 is/are rejected.  71 □ The pecification is objected to by the Examiner.  10 □ The provision of the provision and/or election requirement.  Application Papers  90 □ The specification is objected to the examiner.  10 □ The drawing(s) filed on 08 March 2004 is/are: a) □ accepted or b) □ objected to by the Examiner.  11 □ Period the declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C.	Office Astis a Comment	10/707,274	CHEN ET AL.
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Attachment(s)	12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea	ts have been received. ts have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate

Application/Control Number: 10/707,274

Art Unit: 2862

## **DETAILED ACTION**

Applicant's election without traverse of group I (claims 31 - 37) in the reply filed on 04/13/06 is acknowledged.

Applicant has canceled claims 38 – 60.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 31 – 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (6,933,726).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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As to claims 31 – 37, Chen et al. (hereinafter Chen discloses) an apparatus and method for reducing borehole current effects comprising a sleeve (11) having an outer surface and an inner surface, the sleeve (11) adapted to be disposed over the antenna array (15, 16, 17) such that the outer surface is directed outward from the mandrel (51); and an electrode (12) disposed within a hole formed through the sleeve (11) and adapted to conductively connect to the mandrel (51), the electrode having an external section that is larger than a base section, the external section positioned proximate the outer surface (Note fig. 2, 3 and 8).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Reena Aurora